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1	BRS 2	(contrast near3 enhanc\$5) with S\$1curve\$1	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 13:51	0	
2	BRS 2	(contrast near3 enhanc\$5) same S\$1curve\$1	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 13:51	0	
3	BRS 7	(contrast near3 enhanc\$5) and S\$1curve\$1	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 13:54	0	
4	BRS 28	(contrast near3 enhanc\$5) with ((adjust\$4 correct\$3) near3 (function\$1 curve\$1))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:01	0	
5	BRS 0	20030174886.URPN.	USPAT	2004/07/01 13:55	0	
6	BRS 1624	S\$1curve\$1	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:02	0	
7	BRS 21	S\$1curve\$1 and histogram\$1	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:15	0	
8	BRS 26	(S\$1curve\$1 same (contrast tone\$1scale gray\$1scale grey\$1scale intensi\$3 densi\$3 dynamic\$1range)) same (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:24	0	
9	BRS 45573	((curve\$1 function\$1) same (contrast tone\$1scale gray\$1scale stretch\$3 densi\$3 dynamic\$1range) same (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:25	0	
10	BRS 5562	((curve\$1 function\$1) with ((contrast tone\$1scale gray\$1scale grey\$1scale intensi\$3 densi\$3 dynamic\$1range) near3 (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3)))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:29	0	
11	BRS 174	(((curve\$1 function\$1) with ((contrast tone\$1scale gray\$1scale grey\$1scale intensi\$3 densi\$3 dynamic\$1range) near3 (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3))) same histogram\$4	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:30	0	
12	BRS 121	(((curve\$1 function\$1) with ((contrast tone\$1scale gray\$1scale grey\$1scale intensi\$3 densi\$3 dynamic\$1range) near3 (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3)))) with histogram\$4	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:30	0	

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13	BRS	90	(((curve\$1 function\$1) with ((contrast tone\$1scale gray\$1scale grey\$1scale intensit\$3 densit\$3 dynamic\$1range) near3 (enhanc\$5 stretch\$3 adjust\$4 correct\$3 map\$4 compress\$3))) with histogram\$4) and @ad<=20010201	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:25	0
14	IS&R	2	("4641267").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:26	0
15	IS&R	2	("5164993").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:27	0
16	IS&R	0	("JP2000354167A").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29	0
17	IS&R	0	("JP3063884A").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29	0
18	IS&R	0	("JP2000354167").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29	0
19	IS&R	0	("JP3063884").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:32	0
20	IS&R	0	("JP306003884").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:32	0
21	BRS	94	\$1curve\$1 same (contrast tone\$1scale gray\$1scale intensit\$3 densit\$3 dynamic\$1range)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:04	0
22	BRS	2286	345/20,63,77,589,597,617,690.ccls.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:05	0
23	BRS	4401	348/251,254,603,358/1,9,2,1,3,27,447,461.ccls.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:05	0
24	IS&R	2	("5164993").PN.	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:51	0

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25	BRS	4110 382/162,165-169,172,254,274,ccls.	USPAT; US-PCPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 11:33	0	

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**1** [Special issue on SAC 2001 best papers: Evolutionary image enhancement with user behavior modeling](#)

Cristian Munteanu, Agostinho Rosa  
April 2001 **ACM SIGAPP Applied Computing Review**, volume 9 Issue 1

Full text available: [pdf \(831.87 KB\)](#) Additional Information: [citation](#) [abstract](#) [references](#)

In this paper we present a novel method for image enhancement of gray-scale images based on the simulation of evolution. Our method employs Genetic Algorithms to evolve the shape of the contrast curve in the image, while attempting to partially automate the subjective process of image evaluation (e.g. user behavior) by performing multiple regression on fitness values. Results obtained show the robustness and efficiency of the evolutive method for image enhancement. For several images in the test ...

**Keywords:** image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

**2** [Evolutionary image enhancement with user behaviour modeling](#)

Cristian Munteanu, Agostinho Rosa  
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: [pdf \(188.50 KB\)](#) Additional Information: [full citation](#) [references](#) [index terms](#)

**Keywords:** image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

**3 Hardware: Hardware accelerates real time charcoal rendering**

Aditi Majumder, M. Gopi

June 2002

**Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering**Full text available:  [pdf \(15.59 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present simple rendering techniques implemented using traditional graphics hardware to achieve the effects of charcoal drawing. The effects include characteristics of charcoal drawings like broad grainy strokes and smooth tonal variations that are achieved by smudging the charcoal by hand. Further, we also generate the *closure effect* that is used by artists at times to avoid hard silhouette edges. All these effects are achieved using *contrast enhancement operators* ...

**Keywords:** charcoal rendering, hardware accelerated rendering, non photorealistic rendering, real time rendering

**4 A model of visual masking for computer graphics**

James A. Ferwerda, Peter Shirley, Sumanta N. Pattanaik, Donald P. Greenberg

**August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques**Full text available:  [pdf \(1.26 MB\)](#)Additional Information: [full citation](#), [references](#), [clippings](#), [index terms](#)

**Keywords:** error metrics, image quality, masking, visual perception

**5 Computer simulation of irregular shaped lesions in radiographs**

John M. DeGroot, Samuel J. Dwyer, Lewis J. Garrotto

**August 1973 Proceedings of the annual conference**Full text available:  [pdf \(323.35 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Facing an ever-increasing demand for diagnostic radiological examinations, the radiologist has turned to other means for assistance. In some cases this has been the utilization of trained technical assistants. New methods and techniques have been tested. In this learning process, simulated lesions can be useful in training of assistants. It can also be an integral part of the evaluation of their abilities to perform the required functions. Second, the study of radiographic images may be qua ...

**6 Digital halftoning with space filling curves**

Luiz Velho, Jonas de Miranda Gomes



**July 1991 ACM SIGGRAPH Computer Graphics, Proceedings of the 18th annual conference on Computer graphics and interactive techniques**, Volume 25 Issue 4

Full text available:  pdf (2.92 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces a new digital halftoning technique that uses space filling curves to generate aperiodic patterns of clustered dots. This method allows the parameterization of the size of pixel clusters, which can vary in one pixel steps. The algorithm unifies, in this way, the dispersed and clustered-dot dithering techniques.

**Keywords:** bilevel display, digital halftoning, dithering, quantization, space filling curves

**7 Human vision and computer graphics**

Fanya S. Montalvo

**August 1979 ACM SIGGRAPH Computer Graphics, Proceedings of the 6th annual conference on Computer graphics and interactive techniques**, Volume 13 Issue 2

Full text available:  pdf (402.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Is one picture really worth a thousand words? Why do cleverly designed graphic displays make visual information stand out more clearly with strikingly greater impact than numbers buried in pages of computer printout? Graphic output devices shift the burden of integrating information generated by computers onto the human vision system: the sensory channel with the highest capacity for distributed parallel processing. The system consists of hundreds of successive two-dimensional ar ...

**8 Image-based transfer function design for data exploration in volume visualization**

Shiaofen Fang, Tom Biddlecome, Mihran Tuceryan

**October 1998 Proceedings of the conference on Visualization '98**

Full text available:  pdf (1.76 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** 3D image processing, data exploration, transfer function, volume rendering, volume visualization

**9 Painterly rendering: Abstracted painterly renderings using eye-tracking data**

Anthony Santella, Doug DeCarlo

**June 2002 Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering**

Full text available:  pdf (2.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



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**1 Scattering by S-shaped surfaces**  
*Kempel, L.C.; Volakis, J.L.; Senior, T.B.A.; Locus, S.S.; Mitzner, K.M.; Antennas and Propagation, IEEE Transactions on*, Volume: 41, Issue: 6, June 1993

Pages: 701 - 708

[Abstract] [PDF Full-Text (588 KB)] IEEE JNL

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**2 A bivariate autoregressive technique for analysis and classification of planar shapes**  
*Das, M.; Paulik, M.J.; Loh, N.K.; IEEE Computer Graphics and Applications*  
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[Abstract] [PDF Full-Text (608 KB)] IEEE JNL

 Print format

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**3 Characteristics of GaAs graded-period delta-doped superlattice**

Wen-Chau Liu; Chung-Yih Sun; Wen-Shiung Lour;  
Circuits, Devices and Systems, IEE Proceedings G , Volume: 138 , Issue: 6 , Dec.  
1991  
Pages:629 - 632

[Abstract] [\[PDF Full-Text \(348 KB\)\]](#) [IEEE JNL](#)

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**4 Precise geometry simulation of interferometric SAR signal for air and spaceborne sensors**

Bara, M.; Broquetas, A.; Closa, J.;  
Geoscience and Remote Sensing Symposium, 2000. Proceedings. IGARSS 2000.  
IEEE 2000 International , Volume: 2 , 24-28 July 2000  
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[Abstract] [\[PDF Full-Text \(292 KB\)\]](#) [IEEE CNF](#)

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**5 Syntactic pattern recognition for robot vision**

Stenstrom, J.;  
Robotics and Automation. Proceedings. 1984 IEEE International Conference  
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**6 A high fidelity contrast improving model based on human vision mechanisms**

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**7 Preliminary collimating measurement experiment for a large-scale antenna using image processing**

Okuyama, T.; Kimura, S.; Tsuchiya, S.; Fukase, Y.; Ueno, H.; Harima, K.; Satoh, H.; Yoshida, T.;

Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 2 , 12-15 Oct. 1999  
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**8 Hand gesture recognition using orientation histogram**

*Hyung-Ji Lee; Jae-Ho Chung;*  
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*Hafez, W.;*  
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**10 Electric-bicycle propulsion power**

*Oman, H.; Morchin, W. C.; Jamerson, F. E.;*  
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**11 ILSE-ESQ injector scaled experiment**

*Henestroza, E.; Eylon, S.; Yu, S.; Grote, D.;*  
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**12 Hairy neuron convergence theorems without the precision of timing**

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**13 Electric field characteristics of a 400 kV electrostatic energy analyzer**  
McLaren, P.E.; Connor, H.A.; Lewis, J.F.; Hickok, R.L.; Crowley, T.P.; Schatz, J.G.;  
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**14 Optical distortion due to geomagnetism in quantitative angiography**

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Computers in Cardiology 1988. Proceedings. , 25-28 Sept. 1988  
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**1 Fine tuning: curve and surface deformation by scaling derivatives**  
*Miura, K.T.; Fuhua Cheng; Lazhu Wang;*  
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*Hayakawa, A.; Ohno, S.; Oka, K.;*  
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*Mackey, R.C.; Hershberger, W.D.;*  
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**4 Nonconvex economic dispatch by integrated artificial intelligence**

*Wei-Min Lin; Fu-Sheng Cheng; Ming-Tong Tsay;*  
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**5 Small vessel enhancement in MRA images using local maximum mean processing**

*Yi Sun; Parker, D.;*  
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**6 B-spline snakes: a flexible tool for parametric contour detection**

*Brigger, P.; Hoeg, J.; Unser, M.;*  
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**7 Evaluation of low energy threshold settings for PVI PET systems**

*Kohlmyer, S.G.; Miyaoka, R.M.; Lewellen, T.K.;*  
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**8 Recurrent nasal tumor detection by dynamic MRI**